

The CoastWatch Data Analysis Tool: Status and Future

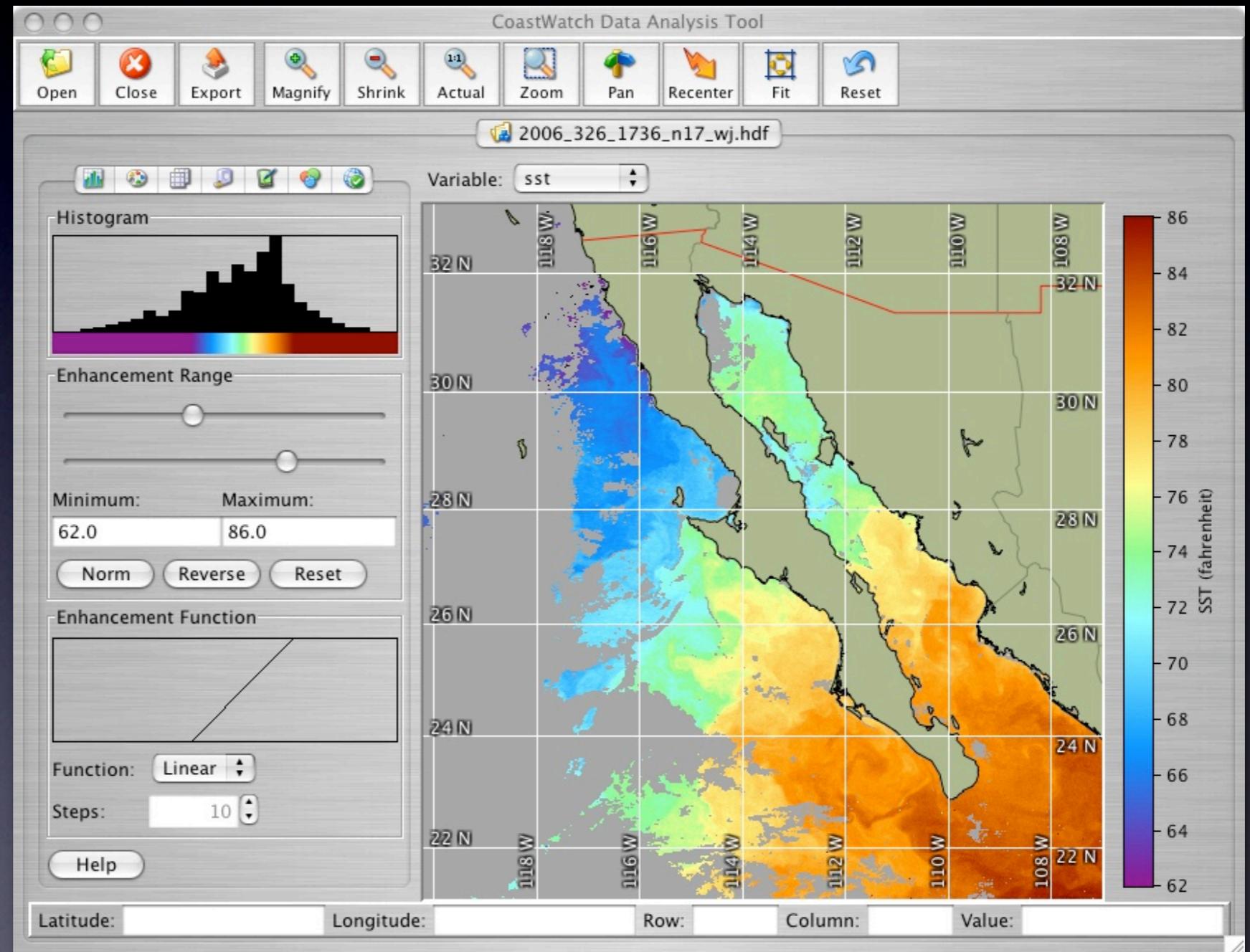
Peter Hollemans, Ø Terrenus Earth Sciences Consultant for
NOAA/NESDIS

CoastWatch Operations Managers Meeting, August, 2008

Talk Outline

- About CDAT
- Current Release
- Future Releases

Example Screen



About
CDAT

Current
Release

Future
Releases

History



About
CDAT

Current
Release

Future
Releases

- 
- 2001 Beta release in C
 - 2004 Java release with CW utilities
 - 2005 OPeNDAP network support
 - 2006 GUI updates, units conversions, expression masking
 - 2007 Navigation analysis, user's guide, full screen mode, ACSPO, non-AVHRR NOAA 1b

User Groups



About
CDAT

Current
Release

Future
Releases

- NOAA/NESDIS researchers: verify products, analysis
- Academic researchers: data conversion, analysis, visualization
- Casual and commercial users: fishing, weather

Home Page



About
CDAT

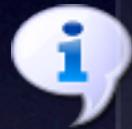
Current
Release

Future
Releases

- [coastwatch.noaa.gov/
cw_cwf3.html](http://coastwatch.noaa.gov/cw_cwf3.html)
- Installation packages,
documentation
- Errata, prereleases

Development

- New versions released every 6-12 months
- Major feature requests from NESDIS (approval and funding)
- Minor feature requests from users
- Bug fixes are ongoing



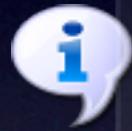
About
CDAT

Current
Release

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Documentation

- Data users: User's guide, help menus
- Software developers: Java code API in HTML (Javadoc), user's guide chapter on main modules
- Data providers: User's guide appendices on supported formats & metadata



About
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Current
Release

Future
Releases

New Features (3.2.2)

About
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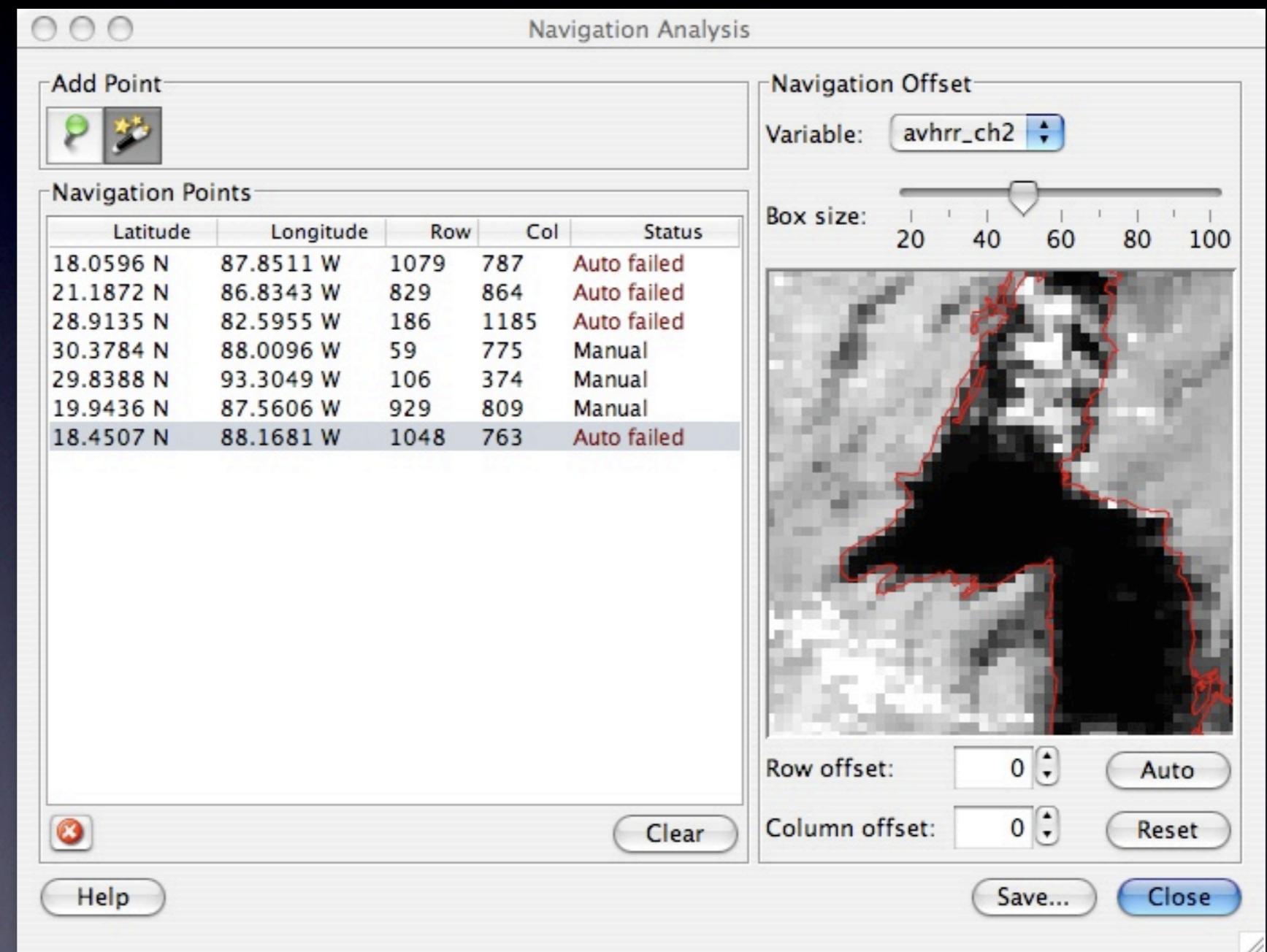
 Current
Release

Future
Releases

- Windows Vista support
- Full screen mode
- NOAA Ib improvements
- Navigation analysis
- User's guide updates



New Features (cont ...)



User Installations

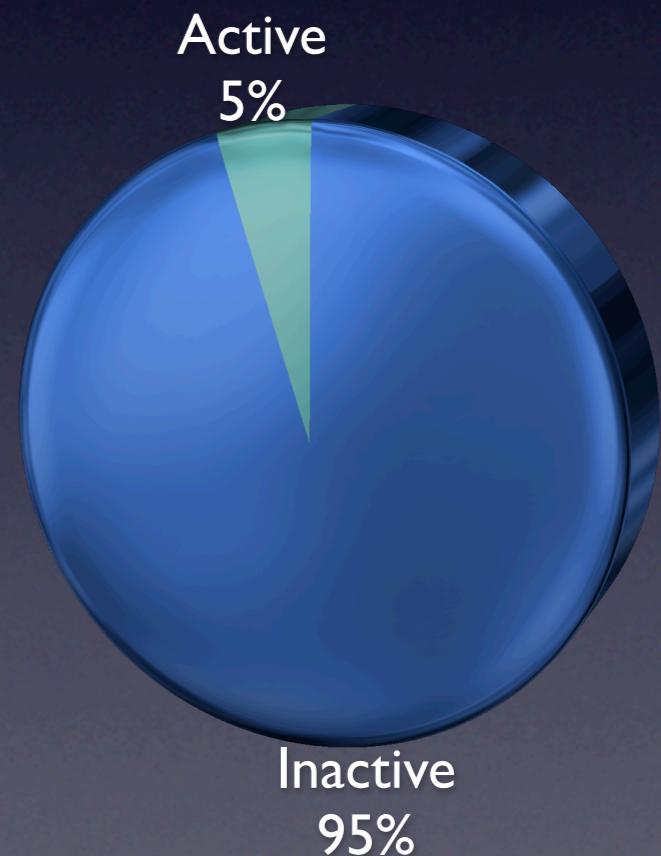
About
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Current
Release

Future
Releases

- Total of 3571 user installations since April 2006 (~130 per month)
- Many more users installing than actively using:



User Distributions

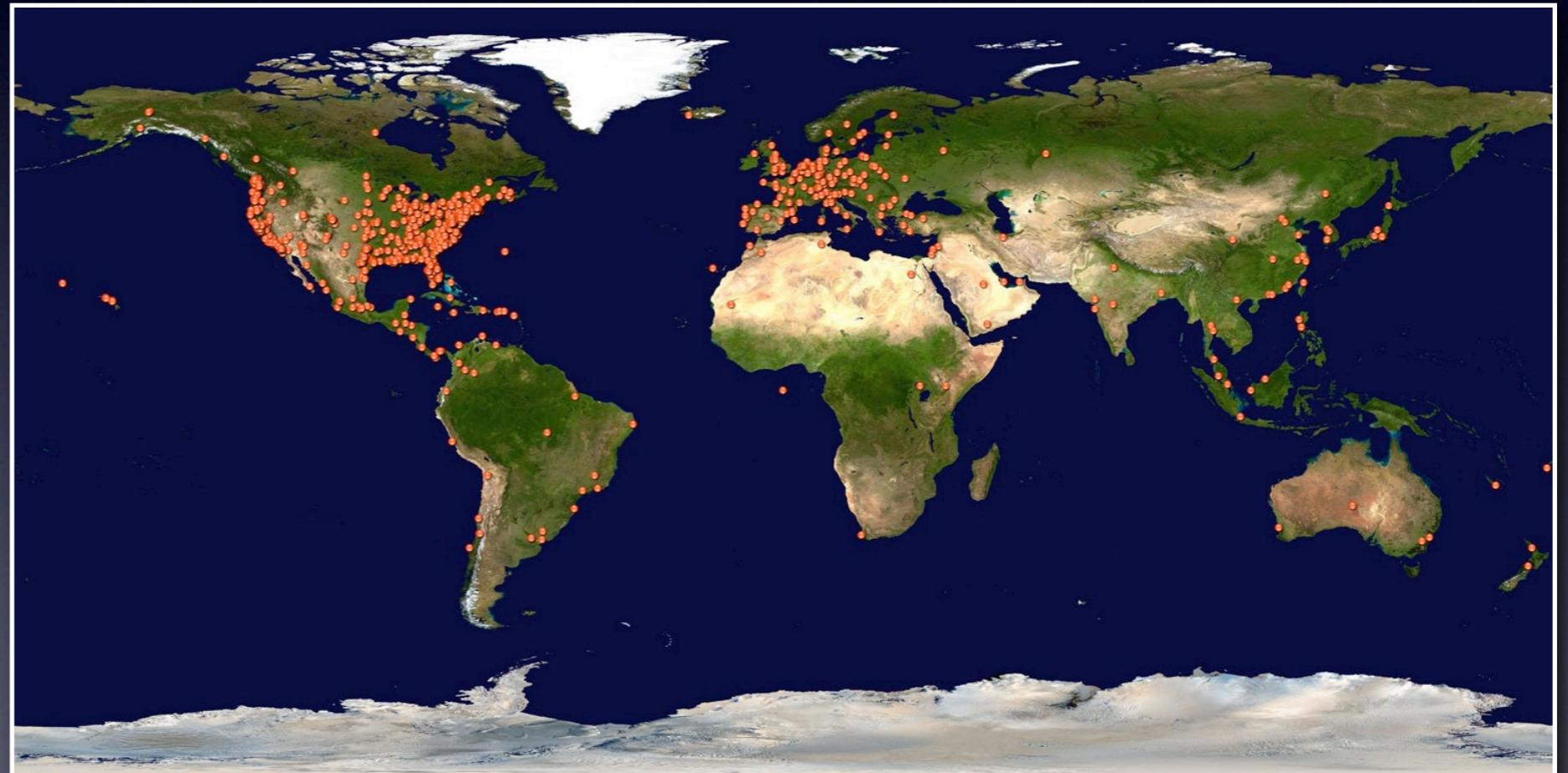
Geographic Location

About
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Current
Release

Future
Releases



User Distributions

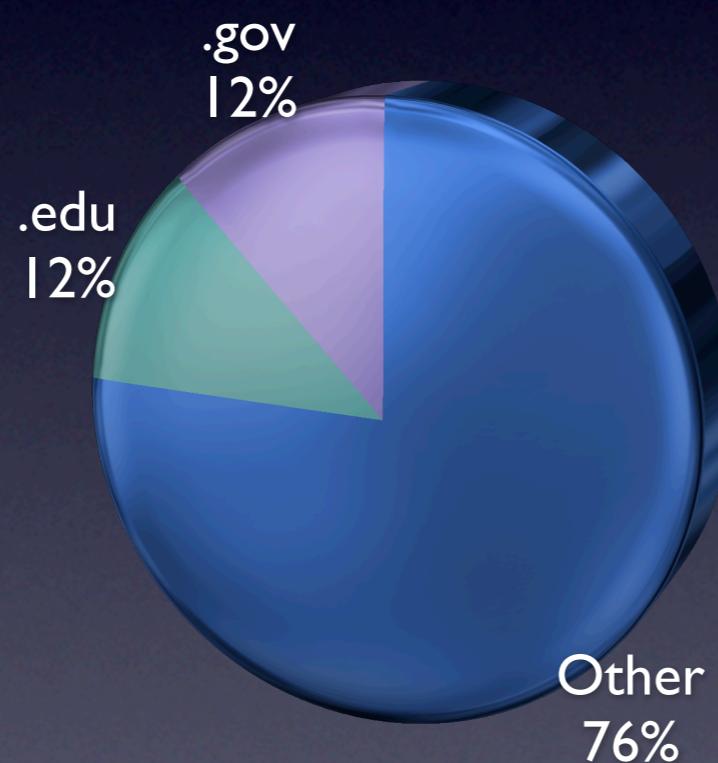
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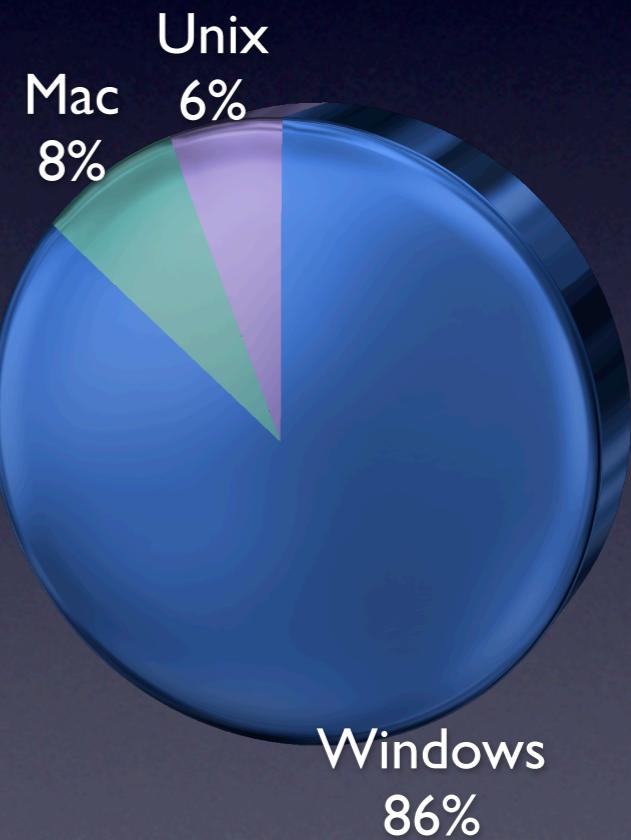
**Current
Release**

Future
Releases

Network Domain



Operating System



Current Development (3.2.3)

About
CDAT

Current
Release

 Future
Releases

- Point data overlay
- XML-based shapefile display
- Data time series support
- Support for 3D and 4D CF-compliant netCDF and OPeNDAP data

Feature Ideas

About
CDAT

Current
Release

 Future
Releases

- Vector data display
- Google Earth compatible output
- Flexible data import
- Scriptable operations

Summary

- About CDAT: history, users, web site, development, docs
- Current Release: new features, current user stats
- Future Releases: development for 3.2.3, feature ideas

Acknowledgements

- CoastWatch node and central operations staff
- CoastWatch data users